

CLIPPEDIMAGE= JP360070153A
PAT-NO: JP360070153A
DOCUMENT-IDENTIFIER: JP 60070153 A
TITLE: SHAPE MEMORY SPRING

PUBN-DATE: April 20, 1985

INVENTOR-INFORMATION:

NAME

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N/A

APPL-NO: JP58177402

APPL-DATE: September 26, 1983

INT-CL_(IPC): C22C019/03; F03G007/06 ; F16F001/02

US-CL-CURRENT: 148/402

ABSTRACT:

PURPOSE: To reduce the amount of a material to be used and to lower the cost of a shape memory spring by forming a thin tubular or platelike material of a shape memory alloy into a spring and subjecting the spring to memory treatment.

CONSTITUTION: A thin tubular or platelike material of a shape memory alloy such as a general 45%Ti-55%Ni shape memory alloy is formed into a spring. The spring is subjected to memory treatment by heating said spring at 400~500°C for 30min~1hr when the Ti-Ni shape

memory alloy is used. The
turns of the coil of the resulting shape memory
spring is in a contact state at
ordinary temp., so a bias spring may be
incorporated into the shape memory
spring to extend the pitches.

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